

Department of Energy

Ohio Field Office Fernald Area Office

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DOE-0119-02

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Mr. James A. Saric United States Environmental Protection Agency Region V, SRF-5J 77 West Jackson Boulevard Chicago, Illinois 60604-3590

Mr. Tom Schneider, Project Manager Ohio Environmental Protection Agency 401 East 5th Street Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

TRANSMITTAL OF RESPONSES TO OHIO ENVIRONMENTAL PROTECTION AGENCY COMMENTS AND THE REVISED 2001 FERNALD SITE CRAYFISH SURVEY AT PADDYS RUN

Reference:

Letter, T. Schneider to J. Reising, "Fernald Site Crayfish Survey at Paddys

Run," dated October 31, 2001

Enclosed for your approval are responses to the Ohio Environmental Protection Agency comments and the revised August 29, 2001 Fernald Site Crayfish Survey at Paddys Run by Ohio State University. This report was revised to include comment responses per the reference above. This effort is required every three years, pursuant to the Integrated Environmental Monitoring Plan. The survey was conducted one year early due to remediation activities in 2001 adjacent to Paddys Run. The survey assesses the population of the state-threatened Sloan's crayfish (*Orconectes sloanii*) in the upstream on property reach of Paddys Run.

The relative abundance of the Sloan's crayfish is compared against *Orconectes rusticus*, the only other species of crayfish residing in Paddys Run. Data reveals that the Sloan's crayfish is still found in large numbers within Paddys Run. The relative abundance to *Orconectes rusticus* is declining when compared to previous years; however, this decline is not attributed to Fernald Environmental Management Project activities. *Orconectes rusticus* is a larger, more aggressive crayfish species, and it generally out-competes Sloan's crayfish over time.



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Mr. James A. Saric Mr. Tom Schneider

DOE-0119-02

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If you have any questions or need further information, please contact Pete Yerace at (513) 648-3161.

Sincerely,

Johnny W. Reising

Fernald Remedial Action

Project Manager

FEMP:Yerace

Enclosures: As Stated

cc w/enclosures:

- R. J. Janke, OH/FEMP
- D. Pfister, OH/FEMP
- P. Yerace, OH/FEMP
- G. Jablonowski, USEPA
- B. Kurey, USFWS
- T. Schneider, OEPA-Dayton (three copies of enclosures)
- F. Hodge, Tetra Tech
- D. Sarno, FCAB
- J. Homer, Fluor Fernald, Inc./MS65-2
- H. Swiger, Fluor Fernald, Inc./MS65-2
- E. Woods, Fluor Fernald, Inc./MS65-2

AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosures:

- K. Nickel, OH/FEMP
- E. Skintik, OH/FEMP
- A. Tanner, OH/FEMP
- F. Bell, ATSDR
- D. Carr, Fluor Fernald, Inc./MS2
- J. D. Chiou, Fluor Fernald, Inc./MS64
- T. Hagen, Fluor Fernald, Inc./MS65-2
- G. Johnson, Fluor Fernald, Inc./MS64
- L. Ludwick, Fluor Fernald, Inc./MS65-2
- L. McDaniel, Fluor Fernald, Inc./MS60
- T. Patton, Fluor Fernald, Inc./MS76
- ECDC, Fluor Fernald, Inc./MS52-7

RESPONSES TO OHIO ENVIRONMENTAL PROTECTION AGENCY COMMENTS ON THE FERNALD SITE CRAYFISH SURVEY AT PADDYS RUN CONDUCTED ON AUGUST 29, 2001 (20900-RP-0015, REVISION 0)

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SPECIFIC COMMENTS

Commenting Organization: Ohio EPA

Commentator: DSW

Section #: Results and Discussion

Pg. #: 1 Line #: NA

Code: E

Original Comment #: 1

The sentences "More species were collected in 2001 than in 1996 and 1999 combined (Table 2). The fourfold increase in species from 1999 to 2001 ..." should read "More individuals were collected in 2001 than in 1996 and 1999 combined (Table 2). The fourfold increase in individuals from 1999 to 2001 ..." as only the two species of

crayfish were collected in all years.

Response:

Comment:

Agree.

Action:

Revise text accordingly.

Commenting Organization: Ohio EPA

ъ Пъ. 4. 4 Commentator: DSW

Section #: Table 2

Pg. #: 4

Line #: NA

Code: C

Code: C

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Original Comment #: 2

Comment:

The numbers of individuals of Orconectes sloanii in 2001 at 3, 2, and 1 should be 76, 26,

and 41, rather than 3, 2, and 1 respectively.

Response:

Agree.

Action:

Revise table accordingly.

Commenting Organization: Ohio EPA

Pg. #: NA

Line #: NA

Commentator: DSW

Section #: General
Original Comment #: 3

Comment:

Although Dr. St. John's grim prediction that eventually the introduced Orconectes rusticus may extirpate Orconectes sloannii from Paddys Run in the vicinity of the FEMP may be true, I believe it to remain a priority of the site to refrain from any practice or action that may accelerate that condition. We also suggest that, when counting the crayfish during the survey, that the Orconectes rusticus be placed in a separate container and transported to the Great Miami River to be released. Although Dr. St. John's prediction may still come to pass, at least the population of Orconectes rusticus can be somewhat held in check during remediation by this process and not given further advantage by perturbations during remediation. This activity is essentially cost free and potentially significantly advantageous for Orconectes sloanii during remediation.

Response:

Agree.

Action:

Orconectes rusticus collected during the next survey will be relocated to the Great

Miami River.